

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP-08-1042	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/GB 00/ 00462	International filing date (day/month/year) 10/02/2000	(Earliest) Priority Date (day/month/year) 11/02/1999
Applicant FMC CORPORATION et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the International search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.

☐ the International search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the International application, the International search was carried out on the basis of the sequence listing:

☐ contained in the International application in written form.

☐ filed together with the International application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the International application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

4
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

GB 00/00462

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B33/035 E21B34/04 E21B33/038

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 319 795 A (VETCO GRAY INC ABB) 3 June 1998 (1998-06-03) abstract	1, 25, 33, 34, 39
A	GB 2 261 271 A (ALPHA THAMES ENG) 12 May 1993 (1993-05-12) abstract	1, 25, 33, 34, 39
A	EP 0 527 619 A (PETROLEO BRASILEIRO SA) 17 February 1993 (1993-02-17) abstract	1, 33
A	US 4 832 124 A (RAYSON PETER J) 23 May 1989 (1989-05-23) figures	1
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the International search

18 May 2000

Date of mailing of the International search report

24/05/2000

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INTERNATIONAL SEARCH REPORT

International Application No

GB 00/00462

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 610 364 A (ALSTHOM) 5 August 1988 (1988-08-05) abstract ----	1
A	US 4 461 354 A (BURAS ALLEN M ET AL) 24 July 1984 (1984-07-24) abstract ----	1,25
A	US 4 589 493 A (KELLY THOMAS P ET AL) 20 May 1986 (1986-05-20) ----	
A	GB 2 320 513 A (VETCO GRAY INC ABB) 24 June 1998 (1998-06-24) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/GB 00/00462

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
GB 2319795	A	03-06-1998	US 5971077	A	26-10-1999
GB 2261271	A	12-05-1993	BR 9206734	A	21-11-1995
			EP 0611411	A	24-08-1994
			WO 9310327	A	27-05-1993
			NO 941737	A	10-05-1994
			US 5494110	A	27-02-1996
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			AU 655048	B	01-12-1994
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			DE 3606083	A	18-09-1986
			DK 95486	A	02-09-1986
			GB 2171736	A, B	03-09-1986
			NL 8600510	A	01-10-1986
			NO 860724	A	02-09-1986
FR 2610364	A	05-08-1988	NONE		
US 4461354	A	24-07-1984	NONE		
US 4589493	A	20-05-1986	NONE		
GB 2320513	A	24-06-1998	US 5868204	A	09-02-1999
			BR 9706355	A	04-05-1999